7B7

# 7B7
# REMOTE-CUTOFF PENTODE

## GENERAL DATA

**Electrical:**

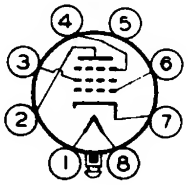
| | | |
|---|---|---|
| Heater, for Unipotential Cathode: | | |
| Voltage | 6.3[□] | ac or dc volts |
| Current | 0.15[□□] | amp |
| Direct Interelectrode Capacitances:[○] | | |
| Grid No.1 to Plate | 0.007 max. | μμf |
| Input | 5.0 | μμf |
| Output | 6.0 | μμf |

○ With external shield connected to cathode.

**Mechanical:**

| | |
|---|---|
| Mounting Position | Any |
| Maximum Overall Length | 2-25/32" |
| Maximum Seated Length | 2-1/4" |
| Maximum Diameter | 1-3/16" |
| Bulb | T-9 |
| Base | Lock-in 8-Pin |
| Basing Designation for BOTTOM VIEW | 8V |

Pin 1 - Heater
Pin 2 - Plate
Pin 3 - Grid No.2
Pin 4 - Grid No.3
Pin 5 - Internal Shield




Pin 6 - Grid No.1
Pin 7 - Cathode
Pin 8 - Heater

Plug - Base Shell

## AMPLIFIER - Class $A_1$

**Maximum Ratings,** ***Design-Center Values*****:**

| | | |
|---|---|---|
| PLATE VOLTAGE | 300 max. | volts |
| GRID-No.2 (SCREEN) VOLTAGE | 100 max. | volts |
| PLATE DISSIPATION | 2.25 max. | watts |
| GRID-No.2 DISSIPATION | 0.25 max. | watt |
| GRID-No.1 (CONTROL-GRID) VOLTAGE: | | |
| Positive bias value | 0 max. | volts |
| PEAK HEATER-CATHODE VOLTAGE: | | |
| Heater negative with respect to cathode | 90 max. | volts |
| Heater positive with respect to cathode | 90 max. | volts |

**Typical Operation and Characteristics:**

| | | | |
|---|---|---|---|
| Plate Voltage | 100 | 250 | volts |
| Grid No.3 (Suppressor) | Connected to cathode at socket | | |
| Grid-No.2 Voltage | 100 | 100 | volts |
| Grid-No.1 Voltage | -3 | -3 | volts |
| Plate Resistance (Approx.) | 0.3 | 0.75 | megohm |
| Transconductance | 1675 | 1750 | μmhos |
| Grid-No.1 Bias (Approx.) for transconductance of 10 μmhos | -40 | -40 | volts |
| Plate Current | 8.2 | 8.5 | ma. |
| Grid-No.2 Current | 1.8 | 1.7 | ma. |

□ Nominal voltage = 7.0 volts. □□ Nominal current = 0.160 ampere.